PC19173A Information Disclosure Statement For Appln. No. 10/824,982





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Julie Agozino

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: STEVEN LEE BENDER, et al.

Serial No.: 10/824,982

Confirmation No.: 8346

Filed: April 15, 2004

For: CRYSTAL STRUCTURE OF **VEGFRKD: LIGAND COMPLEXES AND** 

METHODS OF USE THEREOF

**Group Art Unit: 1646** 

**Examiner: Not Yet Assigned** 

Mail Stop: Amendment

Honorable Commissioner For Patents

P.O. Box 1450

Alexandria, VA 22313-1450

### TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b) or 1.97(c)

#### 37 CFR § 1.97(b)

The Information Disclosure Statement submitted herewith is being filed within three  $\boxtimes$ months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

#### 37 CFR § 1.97(c)

The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of (1) a Final Action under § 1.113; (2) a Notice of Allowance under § 1.311; or (3) an action that otherwise closes prosecution in the application. The Commissioner is hereby authorized to charge the fee as set forth in § 1.17(p) to Deposit Account Number 500329.

	Applica	ant requests that the Examine	er consider the	following copending applications:	
		Application Serial No.	Filing Date		
				,	
		Copies of these copending a	applications a	re enclosed.	
$\boxtimes$	Applicant hereby requests consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith. Copies of the cited references, except as noted below, are enclosed.			he Information Disclosure Statement, of the cited references, except as noted	
		This application is a cont No. Copies of the file of the parent application	cited referen	sional or continuation-in-part of Serial ces, if not enclosed, are available in the nereof.	
		Copies of U.S. Patents and (waiver of 37 CFR 1.98(a))	U.S. Patent A (2)(iii) pursua	Application Publications are not enclosed. nt to 37 CFR 1.183).	
$\boxtimes$	Applic which	olicant hereby requests consideration of the enclosed International Search Report, ch was received in a related international patent application.			
under	37 C.F.I	oner is hereby authorized to R. § 1.17(p), or credit any of this form is enclosed.	charge any foverpayment,	to Deposit Account Number 500329. A	
				Respectfully submitted,	
Date:	2/2	-105		Matthew J. Pugmire Attorney For Applicant Registration No. 54,723	
	on Phar Departi	maceuticals, Inc./A Pfizer Conent	ompany		

10777 Science Center Drive San Diego, California 92121 Phone: (858) 638-6349 Fax: (858) 678-8233

PTO.SB/08A (04-03)

Approved for use through 04/30/03. OMB 0651-0031

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FEB 0 7 2005)	Application Number	10/824,982
INFORMATION DISCLOSURE	Filing Date	April 15, 2004
	First Named Inventor	Steven Lee Bender
TATEMENT BY APPLICANT	Art Unit	1646
(Use as many sheets as necessary)	Examiner Name	TBA
-	Attorney Docket Number	PC19173A

U.S. PATENT DOCUMENTS					
EXAMINER INITIAL	Cite No. 1	DOCUMENT NUMBER Number-Kind Code <sup>2</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
ė.	AA	6,316,603	11-13-2001	Michael A. McTigue, et al.	

FOREIGN PATENT DOCUMENTS						
EXAMINER INITIAL	Cite No. 1	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
	AB	WO 95/21613	08-17-1995	Sugen, Inc.		
	AC	WO 00/14105	03-16-2000	Agouron Pharmaceuticals, Inc.		
	AD	WO 00/75120	12-14-2000	Agouron Pharmaceuticals, Inc.		
	AE	WO 01/02369	01-11-2001	Agouron Pharmaceuticals, Inc.		
	AF	WO 01/02359	01-11-2001	Ajinomoto Co., Inc.		
	AG	WO 01/53274	07-26-2001	Agouron Pharmaceuticals, Inc.		
	АН	WO 01/72778	10-04-2001	Basf Aktiengesellschaft		
	AI	WO 02/20734	03-14-2002	Glaxo Group Ltd.		
	AJ	EP 1 243 596	09-25-2002	Agouron Pharmaceuticals, Inc.		

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-		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
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	AL	ALTSCHUL, S., et al., "Basic Local Alignment Search Tool, " <i>J. Mol. Biol.</i> , 1990, 403-410, vol. 215.	
	AM	ALTSCHUL, S., et al., "Gapped BLAST And PSI_BLAST: A New Generation Of Protein Database Search Programs," <i>Nucleic Acids Research</i> , 1997, 3389-3402, vol. 25, no. 17.	
	AN	AMANN, E., et al., "Tightly Regulated <i>tac</i> Promoter Vectors Useful For the Expression Of Unfused And Fused Proteins In <i>Escherichia coli</i> ," <i>Gene</i> , 1988, 301-315, vol. 69.	
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	AP	BALDARI, C., et al., "A Novel Leader Peptide Which Allows Efficient Secretion Of A Fragment Of Human Interleukin 1β In Saccharomyces Cerevisiae," The EMBO Journal, 1987, 229-234, vol. 6.	
	AQ	BARTLETT, P., et al., "CAVEAT: A Program To Facilitate The Structure-Derived Design Of Biologically Active Molecules," <i>Molecular Recognition In Chemical And Biological Problems, Royal Chemical Society</i> , 1989, 182-196, vol. 78.	
	AR	BOHM, H., et al., "The Computer Program LUDI: A New Method For The De Novo Design Of Enzyme Inhibitors," <i>Journal Of. Computer- Aided Molecular Design</i> , 1992, 61-78, vol. 6.	
	AS	BOUZIDA, D., et al., "Thermodynamics And Kinetics Of Ligan-Protein Binding Studied With The Weighed Histogram Analysis Method And Simulated Annealing," Pacific Symposium On Biocomputing, '99, 426-437, vol. 99, World Scientific, New Jersey.	
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	AV	BUGG, E., et al., "Structure-based Design, An Innovative Approach To Developing Drugs, Has Recently Spawned Many Promising Therapeutic Agents, Including Several Now In Human Trials For Treating AIDS, Cancer And Other Diseases," <i>Scientific American</i> , 1993, 92-98.	

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BE	ERICKSON, J., et al., "Design And Structure Of Symmetry-based Inhibitors Of HIV-1 Protease," Perspectives In Drug Discovery And Design, 1993, 109-128, vol. 1.	
BF	EWING, T., et al., "DOCK 4.0: Search Strategies For Automated Molecular Docking Of Flexible Molecule Databases," <i>Journal Of Computer-Aided Molecular Design</i> , 2001, 411-428, vol. 15.	
BG	FERRARA, N., et al., "The Biology Of Vasular Endothelial Growth Factor," <i>Endocrine Reviews</i> , 1997, 4-25, vol. 18, no. 1.	
ВН	FOLKMAN, J., et al., "What Is The Evidence That Tumors Are Angiogenesis Dependent?,"  Journal Of The National Cancer Institute, 1990, 4-6, vol. 83, no. 1.	
ВІ	GEHLHAAR, D., et al., "Molecular Recognition Of The Inhibitor AG-1343 By HIV-1 Protease: Conformationally Flexible Docking By Evolutionary Programming," <i>Chemistry &amp; Biology</i> , 1995, 317-324, vol. 2, no. 5.	
BJ	GEHLHAAR, D., et al., Proceedings Of The Seventh Ann. Conf. On Evolutionary Programming, 1998, The MIT Press, Cambridge, MA.	

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	/ (Collie) Doctor Training		

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CE	KUNTZ, I., et al., "A Geometric Approach To macromolecule-Ligan Interactions," <i>J. Mol. Biol.</i> , 1982, 269-288, vol. 161.	
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СН	LAM, P., et al., "Rational Design Of Potent, Bioavailable, Nonpeptide Cyclic Ureas As HIV Protease Inhibitors," <i>Science</i> , 1994, 380-384, vol. 263.	
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СК	LAURI, G., et al., CAVEAT: a Program To Facilitate The Design Of Organic Molecules*," Journal of Computer- Aided Mol. Design, 1994, 51-66, vol. 8.	
CL	LUCKLOW, V., et al., "High Level Expression Of Nonfused Foreign Genes With Autographa Californica Nuclear Polyhedrosis Virus Expression Vectors," Virology, 1989, 31-39, vol. 170.	

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СМ	MANLEY, P., et al., "Advances In The Structural Biology, Design And Clinical Development Of VEGF-R Kinase Inhibitors For The Treatment Of Angiogenesis," <i>Biochemica Et Biophysica ACTA</i> , 2004, 17-27, vol. 1697.
CN	MARTIN, Y., et al., "3D Database Searching In Drug Design," <i>Journal of Medicinal Chemistry</i> , 1992, 2145-2154, vol. 35, no. 12.
СО	MC TIGUE, M., et al., "Crystal Structure Of The Kinase domain Of Human Vascular Endothelial Growth Factor Receptor 2: A Key Enzyme In Angiogenesis," Structure, 1999, 319-330, vol. 7, no. 3.
СР	MENG, E., et al., "Automated Docking With Grid-Based Energy Evaluation, <i>Journal of Computational Chemistry</i> , 1992, 505-524, vol. 13, no. 4.
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CR	MILLAUER, B., et al., Glioblastoma Growth Inhibited <i>In Vivo</i> By A Dominant-negative Flk-1 Mutant," <i>Nature</i> , 1994, 576-579, vol. 367.
CS	MIRANKER, A., et al., "Functionality Maps Of Binding Sites: A Multiple Copy Simultaneous Search Method," <i>PROTEINS: Structure, Function And Genetics</i> , 1991, 29-34, vol. 11.
СТ	MOHAMMADI, M., et al., "Structures Of The Tyrosine Kinase Domain Of Fibroblast Growth Factor Receptor In Complex With Inhibitors," <i>Science</i> , 1997, 955-960, vol. 276, no. 5314.
CU	MULLIS, K., et al., "Specific Enzymatic Amplification Of DNA In Vitro: The Polymerase Chain Reaction," <i>Biotechnology</i> , 1992, 17-27, vol. 24.
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СХ	NEEDLEMAN, S., et al., "A General Method Applicable To The Search For Similarities In The Amino Acid Sequence Of Two Proteins," <i>J. Mol. Biol.</i> , 1970, 443-453, vol. 48.
CY	OTWINOWSKI, Z., et al., "Processing Of X-Ray Diffraction Data Collected In Oscillation Mode," Methods In Enzymology, 1997, 307-326, vol. 276.
CZ	PARAST, C., et al., "Characterization And Kinetic Mechanism Of Catalytic Domain Of Human Vascular Endothelial Growth Factor Receptor-2 Tyrosine Kinase (VEGFR2 TK), A Key Enzyme In Angiogenesis," <i>Biochemistry</i> , 1998, 16788-16801, vol. 37, no. 47.

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•	DA	PARGELLIS, C., et al., "Inhibition Of p38 MAP Kinase By Utilizing A Novel Allosteric Binding Site," Nature Structural Biology, 2002, 268-272, vol. 9, no. 4.
•	DB	PERRAKIS, A., et al., "Automated Protein Model Building Combined With Iterative Structure Refinement," <i>Nature Structural Biology</i> , 1999, 458-463, vol. 6, no. 5.
•	DC	PFLUGRATH, J., "The Finer Things In X-ray Diffraction Data Collection," <i>Acta Crystallographica Section D Biological Crystallography</i> , 1999, 1718-1725, D55.
	DD	RATTAN, S., et al., "Protein Synthesis, Posttranslational Modifications And Aging," Annals New York Academy Of Sciences, 1992, 48-62, vol. 663.
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	DF	SCHINDLER, T., et al., "Structural Mechanism For STI-571 Inhibition Of Abelson Tyrosine Kinase," <i>Science</i> , 2000, 1938-1942, vol. 289.
	DG	SCHONER, B., et al., "Translation Of A Synthetic Two-cistron mRNA In <i>Escherichia Coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 1986, 8506-8510, vol. 83.
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